

ABSTRACT

A magnetic powder composed primarily of Fe that has been surface-treated with a silane coupling agent, which magnetic powder is characterized in that it contains Co such that Co/Fe expressed in atomic percent is 20 – 50 at.%, Al such that Al/Fe expressed in atomic percent is 5 – 30 at.%, and one or more rare earth elements R (including Y) such that R/Fe expressed in atomic percent is 4 – 20 at.%, and has average particle diameter of smaller than 80 nm, TAP density of 0.7 g/cm³ or greater, ignition point of 165 °C or higher, and oxygen content of 26 wt% or less.